



PTO/SB/08A (08-03)  
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

### Complete If Known

Application Number	10/776311
Filing Date	February 11, 2004
First Named Inventor	ANTHONY J. KINNEY
Group Art Unit	1632
Examiner Name	
Attorney Docket Number	BB1538USNA

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)				
BB	1	US - 6,177,613		01-23-2001	SEAN J. COUGHLAN ET AL.	
	2	US - 3,925,566		12-09-1975	ROBERT R. REINHART ET AL.	
	3	US - 3,988,485		10-26-1976	HARRY RUSSELL HIBBERT ET AL.	
	4	US - 5,206,050		04-27-1993	RICHARD A. JENNINGS	
	5	US - 5,972,664		10-26-1999	DEBORAH KNUTZON ET AL.	
	6	US - 6,075,183		06-13-2000	DEBORAH KNUTZON ET AL.	
	7	US - 6,187,367		02-13-2001	IUE CHUNG CHO ET AL.	
	8	US - 6,410,288		06-25-2002	DEBORAH KNUTZON ET AL.	
	9	US - 3,950,564		04-13-1976	GABOR PUSKI ET AL.	
	10	US - 4,284,656		08-18-1981	STEPHEN C.P. HWA	
	11	US - 5,968,809		10-19-1999	DEBORAH KNUTZON ET AL.	
	12	US - 6,051,754		04-18-2000	DEBORAH KNUTZON	
	13	US - 6,136,574		10-24-2000	DEBORAH KNUTZON ET AL.	
	14	US - 6,355,296		03-12-2002	ANDREAS G. ALTEMUELLER ET AL.	
	15	US - 6,459,018		10-01-2002	DEBBIE KNUTZON	
		US -				
		US -				
		US -				
		US -				
		US -				

### FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>e</sub>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	1	WO	01/12800 A2	02-22-2001	DUPONT		<input type="checkbox"/>
	2	WO	02/08401 A2	01-31-2002	ABBOTT LABS		<input type="checkbox"/>
	3	WO	98/55625 A1	12-10-1998	CALGENE, INC.		<input type="checkbox"/>
	4	WO	98/46763 A1	10-22-1998	CALGENE LLC & ABBOTT		<input type="checkbox"/>
	5	WO	02/08269 A2	01-31-2002	DUPONT		<input type="checkbox"/>
	6	WO	00/12720 A2	03-09-2000	ABBOTT LABS		<input type="checkbox"/>
	7	WO	98/46764	10-22-1998	CALGENE LLC		<input type="checkbox"/>
	8	WO	00/40705 A2	07-13-2000	ABBOTT LABS		<input type="checkbox"/>
	9	WO	02/26946 A2	04-04-2002	BIOORIGINAL FOOD & SCIENCE CORP.		<input type="checkbox"/>

Examiner Signature	/Brendan Baggot/ (07/15/2006)	Date Considered	
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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 4

### Complete if Known

Application Number	10/776311
Filing Date	February 11, 2004
First Named Inventor	ANTHONY J. KINNEY ET. AL.
Group Art Unit	1632
Examiner Name	
Attorney Docket Number	BB1538USNA

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
BB	1	UNITED STATES NATIONAL APPLN. NO. 10/776,889 FILED FEBRUARY 11, 2004, ENTITLED "ANNEXIN AND P34 PROMOTERS AND USE IN EXPRESSION OF TRANSGENIC GENES IN PLANTS	<input type="checkbox"/>
	2	JOHN J. HARADA ET AL., Soybean beta-conglycinin Genes are Clustered in Several DNA Regions and Are Regulated by Transcriptional and Posttranscriptional Processes, The Plant Cell, Vol. 1:415-425, 1989	<input type="checkbox"/>
	3	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 6752906, ACCESSION NO: AF222989, 01-26-2000, J. KWON ET AL., Structure of two omega-3 fatty acid desaturase cDNA clones from Capsicum annuum and their expression patterns	<input type="checkbox"/>
	4	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 687594, ACCESSION NO: U17063, 02-03-1996, R. S. BHELLA ET AL., Nucleotide sequence of a cDNA from Limnanthes douglasii L. encoding a delta-15 linoleic acid desaturase	<input type="checkbox"/>
	5	RESHAM S. BHELLA ET AL., Nucleotide sequence of a cDNA from Limnanthes douglasii L. encoding a delta-15 linoleic acid desaturase, Plant Gene Register, Plant Phys., 108:861, 1995	<input type="checkbox"/>
	6	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 784869, ACCESSION NO: L41807, 05-24-1995, J. P. SPYCHALLA ET AL., The fat-1 gene of Caenorhabditis elegans encodes an omega-3 fatty acid desaturase	<input type="checkbox"/>
	7	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 600596, ACCESSION NO: D13780, 02-03-1999, T. SAKAMOTO ET AL., Cloning of omega 3 desaturase from cyanobacteria and its use in altering the degree of membrane-lipid unsaturation	<input type="checkbox"/>
	8	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 11691869, ACCESSION NO: AJ302017, 12-11-2000, S.A. RICHMOND, Thesis (2000) Department of Biological Sciences, University of Lancaster, Lancaster, United Kingdom	<input type="checkbox"/>
	9	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2446995, ACCESSION NO: D63953, 03-04-1998, T. BERBERICH ET AL., Two maize genes encoding omega-3 fatty acid desaturase and their differential expression to temperature	<input type="checkbox"/>
	10	THOMAS BERBERICH ET AL., Two maize genes encoding omega-3 fatty acid desaturase and their differential expression to temperature, Plant Mol. Biol., Vol. 36:297-306, 1998	<input type="checkbox"/>
✓	11	KATHRIN FRITSCH ET AL., Isolation and characterization of a calendic acid producing (8,11)-linoleoyl desaturase, FEBS Letters, Vol. 462:249-253, 1999	<input type="checkbox"/>

Examiner Signature	/Brendan Baggot/ (07/15/2006)	Date Considered	
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/776311
		Filing Date	February 11, 2004
		First Named Inventor	ANTHONY J. KINNEY ET. AL.
		Group Art Unit	1632
		Examiner Name	
Sheet 2 of 4	Attorney Docket Number	BB1538USNA	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
BB	12	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 6634079, ACCESSION NO: AJ245938, 12-22-1999, K. FRITSCH ET AL., Isolation and characterization of a catenolic acid producing (8,11)-linoleoyl desaturase	<input type="checkbox"/>
	13	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1199562, ACCESSION NO: J05560, 09-30-1998, A. KALINSKI ET AL., Molecular cloning of a protein associated with soybean seed oil bodies that is similar to thiol proteases of the papain family	<input type="checkbox"/>
	14	ANDREW KALINSKI ET AL., A Soybean Vacuolar Protein (P34) Related to Thiol Proteases Is Synthesized as a Glycoprotein Precursor during Seed Maturation, Journ. of Biol. Chem., Vol. 267(17):12068-12076, 1992	<input type="checkbox"/>
	15	ANDREW KALINSKI ET AL., Molecular cloning of a protein associated with soybean seed oil bodies that is similar to thiol proteases of the papain family, Journ. of Biol. Chem., Vol. 265(23):13843-13848, 1990	<input type="checkbox"/>
	16	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 256426, ACCESSION NO: S44893, 05-08-1993, J. J. HARADA ET AL., Soybean beta-conglycinin genes are clustered in several DNA regions and are regulated by transcriptional and posttranscriptional processes	<input type="checkbox"/>
	17	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1754794, ACCESSION NO: U59477, 12-28-1996, S. -K. LEE ET AL., Cloning of plant omega-3 fatty acid desaturase gene from Perilla frutescens	<input type="checkbox"/>
	18	NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1694624, ACCESSION NO: D79979, 02-05-1999, T. HAMADA ET AL., cDNA cloning of a wounding-inducible gene encoding a plastid omega-3 fatty acid desaturase from tobacco	<input type="checkbox"/>
	19	NiceProt View of Swiss-Prot Primary Accession No. P48620, 02-1996, Omega-3 fatty acid desaturase, chloroplast, K. SHOJI	<input type="checkbox"/>
	20	NiceProt View of Swiss-Prot Primary Accession No. P48621, 02-1996, Omega-3 fatty acid desaturase, chloroplast, N. S. YADAV ET AL.	<input type="checkbox"/>
	21	NiceProt View of Swiss-Prot Primary Accession No. P46310, 11-1995, Omega-3 fatty acid desaturase, chloroplast, N. S. YADAV ET AL.	<input type="checkbox"/>
✓	22	NiceProt View of Swiss-Prot Primary Accession No. P48619, 02-1996, Omega-3 fatty acid desaturase, chloroplast, VAN DE LOO, F.J. ET AL.	<input type="checkbox"/>

Examiner Signature	/Brendan Baggot/ (07/15/2006)	Date Considered	
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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/776311
		Filing Date	February 11, 2004
		First Named Inventor	ANTHONY J. KINNEY ET. AL.
		Group Art Unit	1632
		Examiner Name	
Sheet 3 of 4	Attorney Docket Number	BB1538USNA	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
BB	23	JAMES G. WALLIS ET AL., Polyunsaturated fatty acid synthesis: what will they think of next?, Trends in Biochem. Sci., Vol. 27(9):467-473, 2002	<input type="checkbox"/>
	24	NARENDRA S. YADAV ET AL., Cloning of Higher Plant omega-3 Fatty Acid Desaturases, Plant Phys., Vol. 103:467-476, 1993	<input type="checkbox"/>
	25	JOACHIM MESSING, New M13 Vectors for Cloning, Methods in Enzymol., Vol. 101:20-78, 1983	<input type="checkbox"/>
	26	MATS ELLERSTROM ET AL., Functional dissection of a napin gene promoter: identification of promoter elements required for embryo and endosperm-specific transcription, Plant Mol. Biol., Vol. 32:1019-1027, 1996	<input type="checkbox"/>
	27	AINE L. PLANT ET AL., Regulation of an Arabidopsis oleosin gene promoter in transgenic Brassica napus, Plant Mol. Biol., Vol. 25:193-205, 1994	<input type="checkbox"/>
	28	JAMES S. KEDDIE ET AL., A seed-specific Brassica napus oleosin promoter interacts with a G-box-specific protein and may be bi-directional, Plant Mol. Biol. Vol. 24:327-340, 1994	<input type="checkbox"/>
	29	ZHANG-LIANG CHEN ET AL., Regulated Expression of Genes Encoding Soybean beta-Conglycinins in Transgenic Plants, Developmental Gen., Vol. 10:112-122, 1989	<input type="checkbox"/>
	30	TOSHIO SAKAMOTO ET AL., Cloning of omega3 desaturase from cyanobacteria and its use in altering the degree of membrane-lipid unsaturation	<input type="checkbox"/>
	31	TATSUROU HAMADA ET AL., cDNA Cloning of a Wounding-Inducible Gene Encoding a Plastid omega-3 Fatty Acid Desaturase from Tobacco, Plant Cell Phys., Vol. 37(5):606-611, 1996	<input type="checkbox"/>
	32	JOHN SHANKLIN ET AL., Eight Histidine Residues Are Catalytically Essential in a Membrane-Associated Iron Enzyme, Stearoyl-CoA Desaturase, and Are Conserved in Alkane Hydroxylase and Xylene Monooxygenase, Biochem., Vol. 33:12787-12794, 1994	<input type="checkbox"/>
↓	33	JOHNATHAN A. NAPIER, Plumbing the depths of PUFA biosynthesis: a novel polyketide synthase-like pathway from marine organisms, Trends in Plant Sci., Vol. 7(2):51-54	<input type="checkbox"/>

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 4 of 4

**Complete if Known**

Application Number	10/776311
Filing Date	February 11, 2004
First Named Inventor	ANTHONY J. KINNEY ET. AL.
Group Art Unit	1632
Examiner Name	
Attorney Docket Number	BB1538USNA

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

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BB	34	JAMES P. SPYCHALLA ET AL., Identification of an animal omega-3 fatty acid desaturase by heterologous expression in Arabidopsis, PNAS, Vol. 94:1142-1147, 1997	<input type="checkbox"/>
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PTO/SB/088 (07-05)

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Substitute for form 1449A/PTO <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		<b>Complete If Known</b>	
		Application Number	10/776311
		Filing Date	February 11, 2004
		First Named Inventor	ANTHONY J. KINNEY
		Group Art Unit	1638
		Examiner Name	CYNTHIA E. COLLINS
		Attorney Docket Number	BB1538USNA
Sheet	1	of	1

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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BB	1	SUZETTE L. PEREIRA ET AL., A Novel Omega-3-Fatty Acid Desaturase Involved in the Biosynthesis of Eicosapentanoic Acid, Biochem J, Vol. 378, pp. 665-671, 2004	<input type="checkbox"/>
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